



SPYWOLF

Security Audit Report



Completed on
March 3, 2023

@SPYWOLFNETWORK



@SPYWOLFNETWORK



SPYWOLF.CO





OVERVIEW

This audit has been prepared for **SamuraiAI** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal

- SPYWOLF Team -

”





TABLE OF CONTENTS

Project Description	01
Contract Information	02
Current Stats	03
Vulnerability Check	04
Threat Levels	05
Found Threats	06-A/06-B
Good Practices	07
Tokenomics	08
Team Information	09
Website Analysis	10
Social Media & Online Presence	11
About SPYWOLF	12
Disclaimer	13



SamuraiAI



PROJECT DESCRIPTION

According to their whitepaper:

The Samurai smart contract is a cutting-edge solidity code designed to revolutionize the world of cryptocurrency trading. Its sophisticated algorithm can identify all-time highs and higher highs with a high degree of accuracy. These higher highs will be determined by a complex and secure mathematical formula that ensures fair distribution of profits between high-profit gainers and future dip buyers.

Release Date: Launching in March, 2023

Category: AI

01



CONTRACT INFO

Token Name
Samurai

Symbol
Samurai

Contract Address

0x932696C0Fb1cC408B4461B978E397F8Db98f67B4

Network

Binance Smart Chain

Language

Solidity

Deployment Date

March 02, 2023

Verified?

Yes

Total Supply

1,000,000,000

Status

Not launched

TAXES

Buy Tax

3%

Sell Tax

3%

*Taxes can be changed in future



Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



TOKEN TRANSFERS STATS

Transfer Count	1
Uniq Senders	1
Uniq Receivers	1
Total Amount	1000000000 SamurAi
Median Transfer Amount	1000000000 SamurAi
Average Transfer Amount	1000000000 SamurAi
First transfer date	Mar-02-2023 08:31:26 PM UTC
Last transfer date	Mar-02-2023 08:31:26 PM UTC
Days token transferred	1

SMART CONTRACT STATS

Calls Count	1
External calls	1
Internal calls	0
Transactions count	1
Uniq Callers	1
Days contract called	1
Last transaction time	Mar-02-2023 08:31:26 PM UTC
Created	Mar-02-2023 08:31:26 PM UTC
Create TX	0x014b410efc31453bdff039bbcf95e6a2efcd6c5428595f758a757d5adc115c7c
Creator	0x96085fb2323e4906dc6c0441b9d4d7a391c32e6c



VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

Issues on this level are minor details and warning that can remain unfixed.

Informational

Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.



FOUND THREATS

⚠ High Risk

Liquidity pair can be set manually, if EOA or inappropriate contract address is set buying and selling will fail.

If fraudulent contract is set as liquidity pair, this can lead to manipulation of ATH and DIP values, causing effective mint on every next purchase.

Additional tokens minting can lead to token's rapid price inflation.

```
address public uniswapV2Pair;
function setUniswapV2Pair(address pair) external onlyOwner {
    uniswapV2Pair = pair;
}
function _transfer(address from, address to, uint256 amount) private {
    .....
    if (uniswapV2Pair == from) {
        // NOTE: If the price in the new dip the first buyer will get the incentive (5%)
        if (samuraiModeEnabled && _isNewDip()) {
            uint256 incentive = _calculateDipIncentive(amount);
            _recordDip(incentive);

            // transfer the incentive to the buyer
            balances[to] += incentive;
        }

        fees = amount.mul(BUY_PROTOCOL_FEE).div(100);
    }
    .....
}

function _isNewAth() private view returns (bool) {
    uint256 price = _getRealtimePrice();
    .....
}

function _isNewDip() private view returns (bool) {
    uint256 price = _getRealtimePrice();
    .....
}

function _getRealtimePrice() private view returns (uint256) {
    IUniswapV2Pair pair = IUniswapV2Pair(uniswapV2Pair);

    (uint256 reserve0, uint256 reserve1, ) = pair.getReserves();
    uint256 price = reserve1.mul(1e18).div(reserve0);

    return price;
}
```



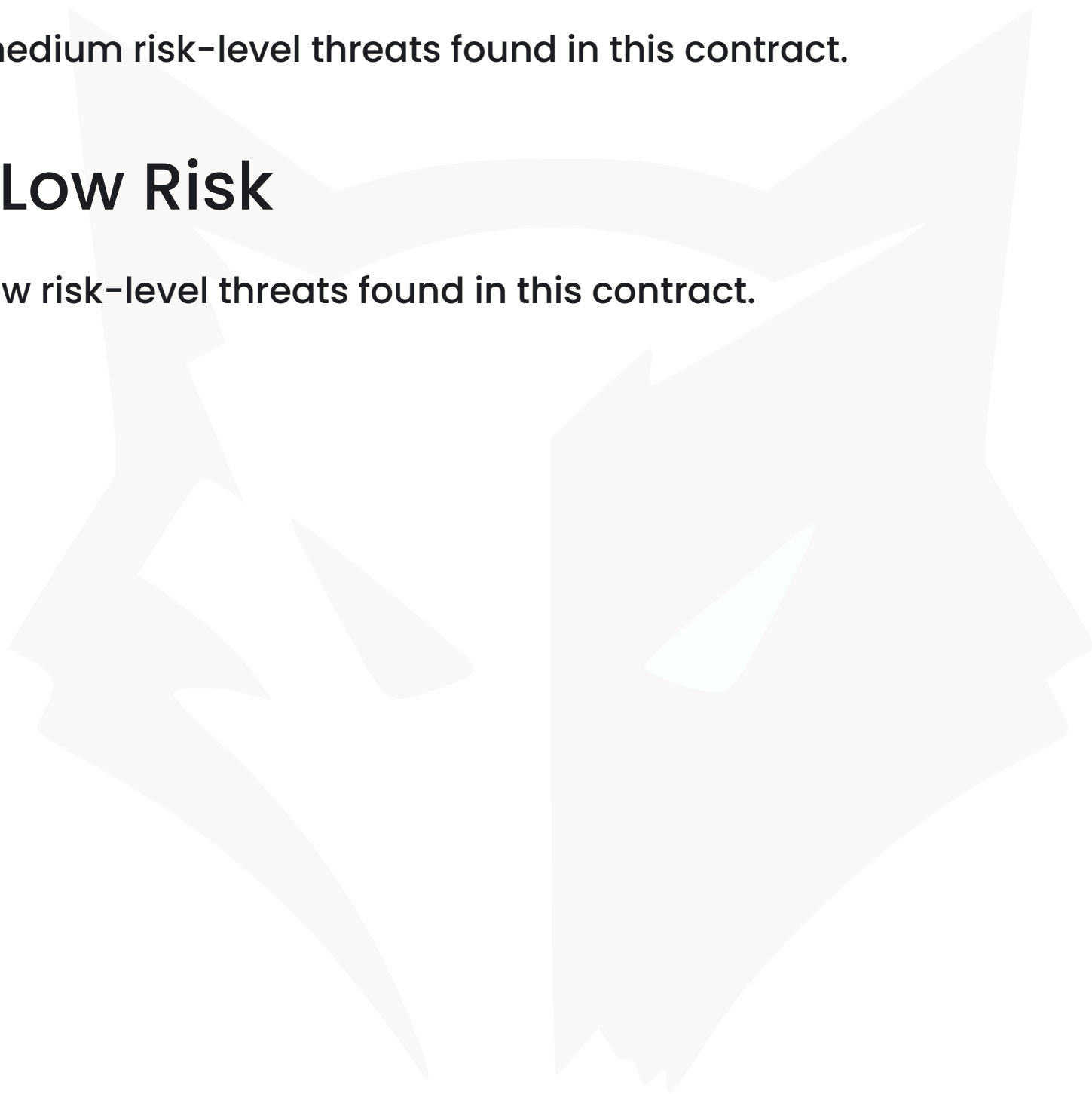
FOUND THREATS

Medium Risk

No medium risk-level threats found in this contract.

Low Risk

No low risk-level threats found in this contract.





FOUND THREATS

Informational

Owner can exclude address from fees.

Addresses excluded from fees are not subject to tax deduction.

```
function excludeFromFees(address account, bool excluded)
    external
    onlyOwner
{
    _isExcludedFromFees[account] = excluded;
}
```



RECOMMENDATIONS FOR

GOOD PRACTICES

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

SamuraiAI

GOOD PRACTICES FOUND

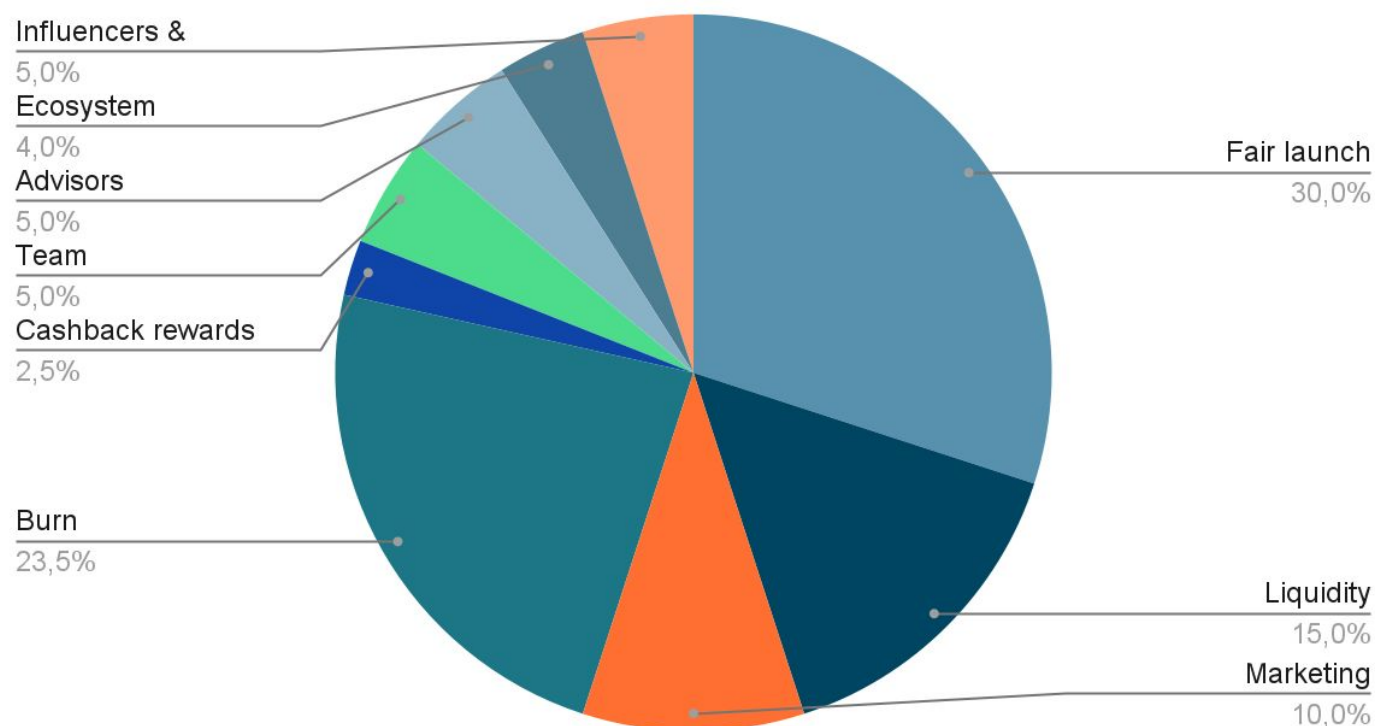
- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



The following tokenomics are based on the project's whitepaper and/or website:

- 30% - Fair launch
- 15% - Liquidity
- 10% - Marketing
- 23.5% - Burn
- 2.5% - Cashback rewards
- 5% - Team
- 5% - Advisors
- 4% - Ecosystem
- 5% - Influencers & Partnerships

Tokens distribution



TOKENOMICS



THE TEAM

⚠ The team is anonymous

KYC INFORMATION

⚠ No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





WEBSITE

Website URL

<https://samurai.tax/>

Domain Registry

<https://www.namecheap.com/>

Domain Expiration

Expires on 2024-02-24

Technical SEO Test

Passed

Security Test

Passed. SSL certificate present

Design

Single page design,
appropriate color scheme
and graphics.

Content

The information helps new
investors understand what
the product does right away.
No grammar mistakes
found.

Whitepaper

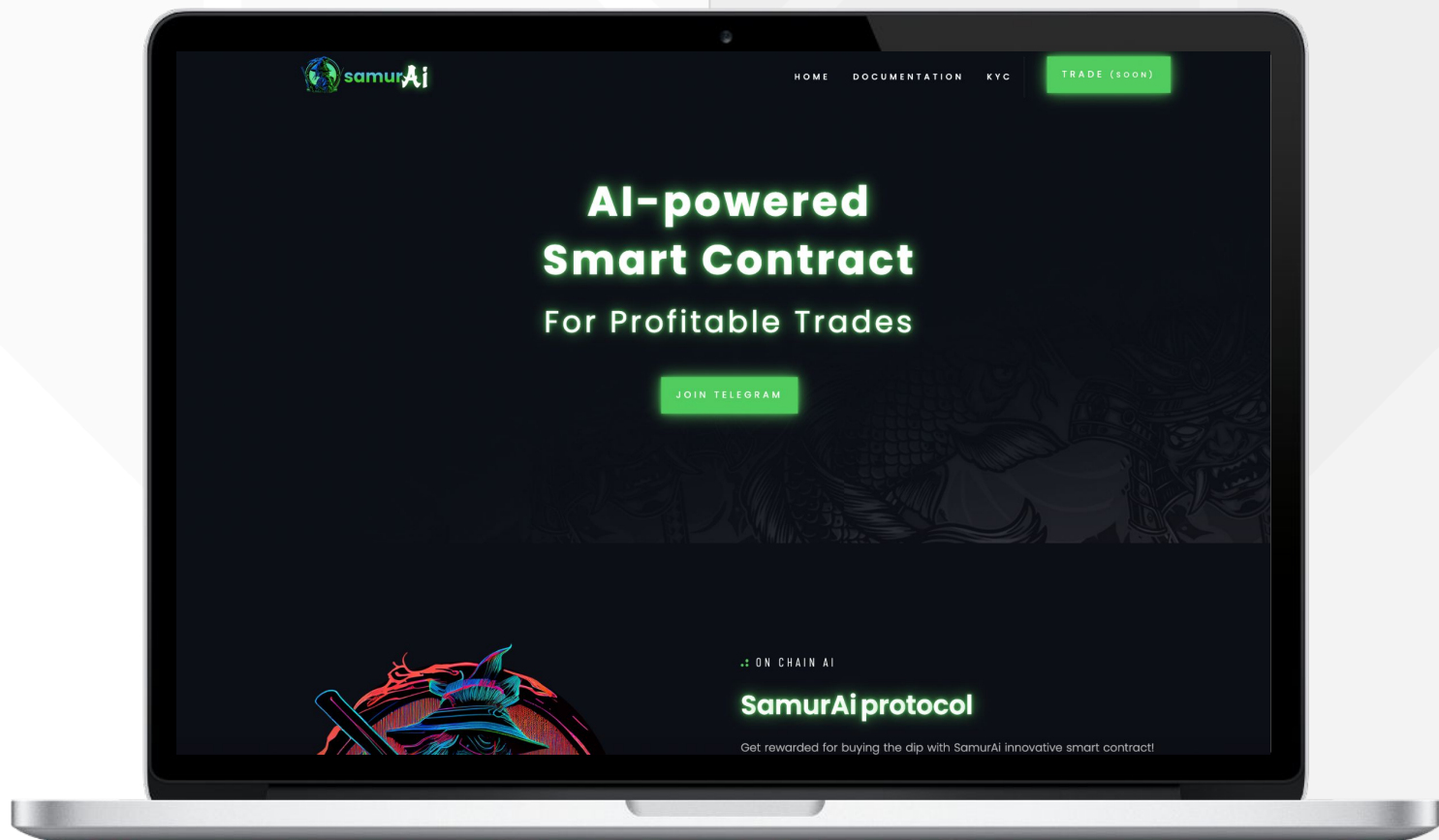
Explanatory information can
be found in the project's
documentation page.

Roadmap

Yes, goals set without time
frames.

Mobile-friendly?

Yes



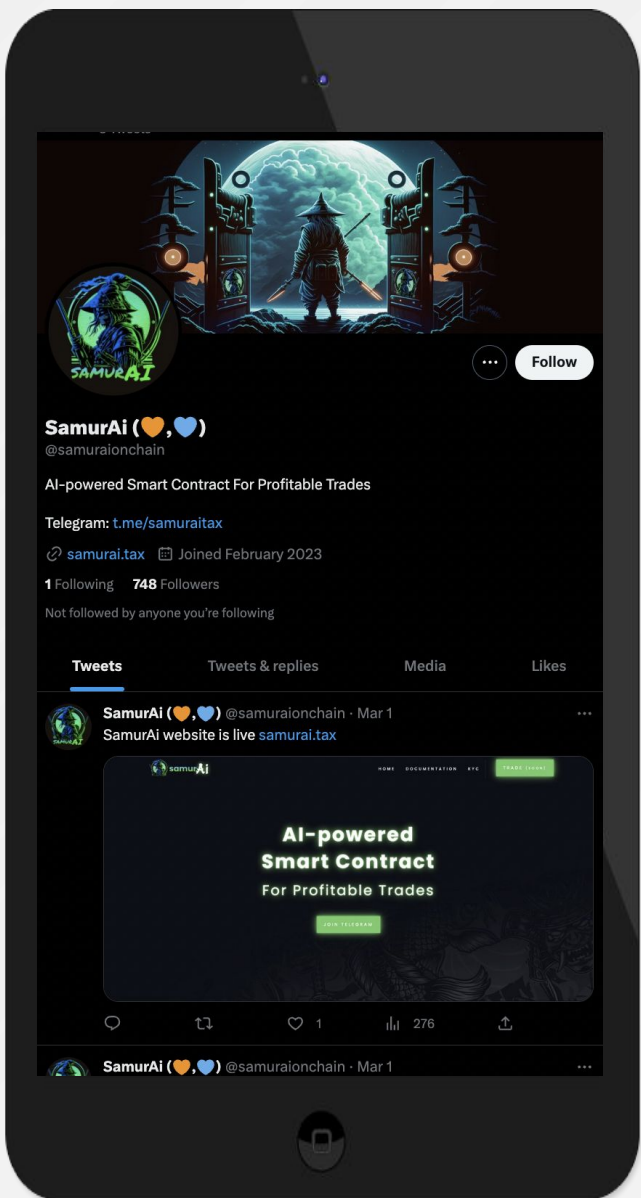
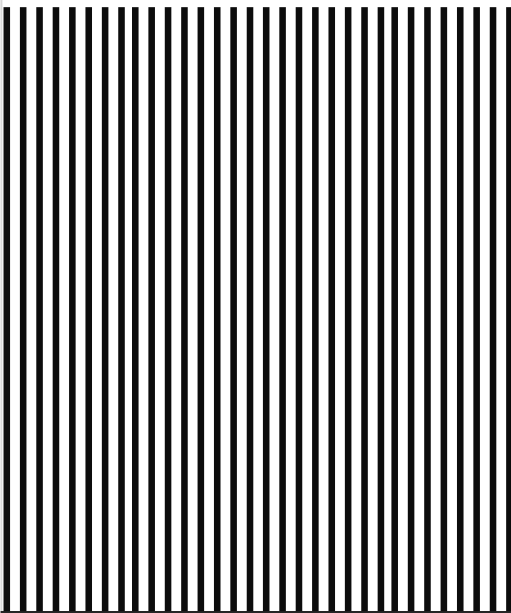
samurai.tax



SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS
Project's social media
pages are active



Twitter

@samuraionchain

- 740 followers
- Posts daily
- 5 total posts



Discord

- Not available



Telegram

@samuraitax

- 1205 members
- Active members
- Active mods



Medium

- Not available



SPYWOLF

CRYPTO SECURITY

Audits | KYCs | dApps
Contract Development

ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 400 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

To hire us, reach out to
contact@spywolf.co or
t.me/joe_SpyWolf

FIND US ONLINE



[SPYWOLF.CO](https://spywolf.co)



[@SPYWOLFNETWORK](https://t.me/SPYWOLFNETWORK)



[@SPYWOLFNETWORK](https://twitter.com/SPYWOLFNETWORK)



Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

DISCLAIMER:

By reading this report or any part of it, you agree to the terms of this disclaimer. If you do not agree to the terms, then please immediately cease reading this report, and delete and destroy any and all copies of this report downloaded and/or printed by you. This report is provided for information purposes only and on a non-reliance basis, and does not constitute investment advice.

No one shall have any right to rely on the report or its contents, and SpyWolf and its affiliates (including holding companies, shareholders, subsidiaries, employees, directors, officers and other representatives) (SpyWolf) owe no duty of care towards you or any other person, nor does SpyWolf make any warranty or representation to any person on the accuracy or completeness of the report.

The report is provided "as is", without any conditions, warranties or other terms of any kind except as set out in this disclaimer, and SpyWolf hereby excludes all representations, warranties, conditions and other terms (including, without limitation, the warranties implied by law of satisfactory quality, fitness for purpose and the use of reasonable care and skill) which, but for this clause, might have effect in relation to the report. Except and only to the extent that it is prohibited by law, SpyWolf hereby excludes all liability and responsibility, and neither you nor any other person shall have any claim against SpyWolf, for any amount or kind of loss or damage that may result to you or any other person (including without limitation, any direct, indirect, special, punitive, consequential or pure economic loss or damages, or any loss of income, profits, goodwill, data, contracts, use of money, or business interruption, and whether in delict, tort (including without limitation negligence), contract, breach of statutory duty, misrepresentation (whether innocent or negligent) or otherwise under any claim of any nature whatsoever in any jurisdiction) in any way arising from or connected with this report and the use, inability to use or the results of use of this report, and any reliance on this report. The analysis of the security is purely based on the smart contracts, website, social media and team.

No applications were reviewed for security. No product code has been reviewed.